

In the Abstract:

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ABSTRACT OF THE DISCLOSURE

The lead-free, Li₂O-free, CuO-free and preferably arsenic-free optical glass is suitable for applications in the fields of imaging, projection, telecommunications, optical communication technology and/or laser technology, and has a refractive index n_d of $1.55 \leq n_d \leq 1.60$, an Abbe number v_d of $54 \leq v_d \leq 63$ and a transformation temperature $T_g \leq 500^\circ\text{C}$. This optical glass has good production and processing properties and crystallization stability, and, at the same time, advantageously does not contain PbO and As₂O₃. These glasses contain, in percent by weight based on oxide content: P₂O₅, 43 – 56; ZnO, 21– 36; Al₂O₃, 0 – 6; Na₂O, 0 – 16; K₂O, 0 – 8; $\Sigma\text{M}_2\text{O} \leq 16$; MgO, 0 – 5; CaO, 0 – 5; BaO, 3 – 14; B₂O₃, 0 – 8; La₂O₃, 0 – 7. In addition, it may also contain standard refining agents.